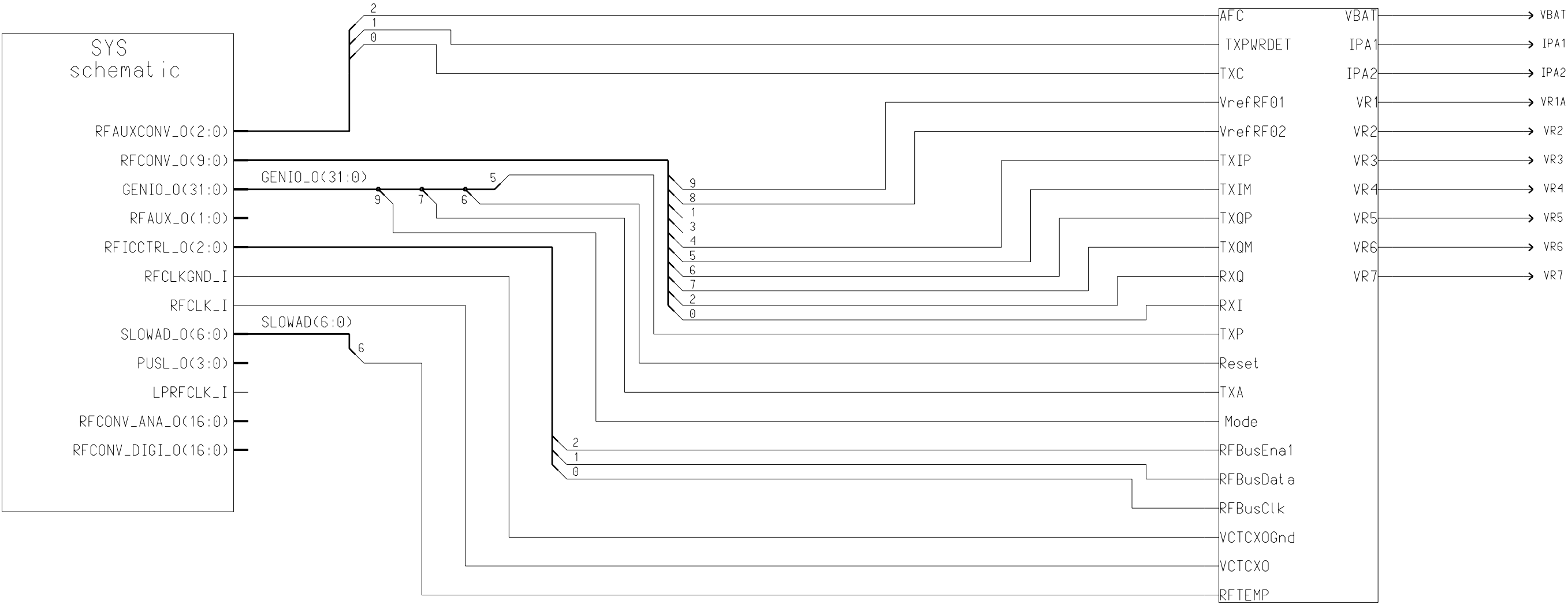
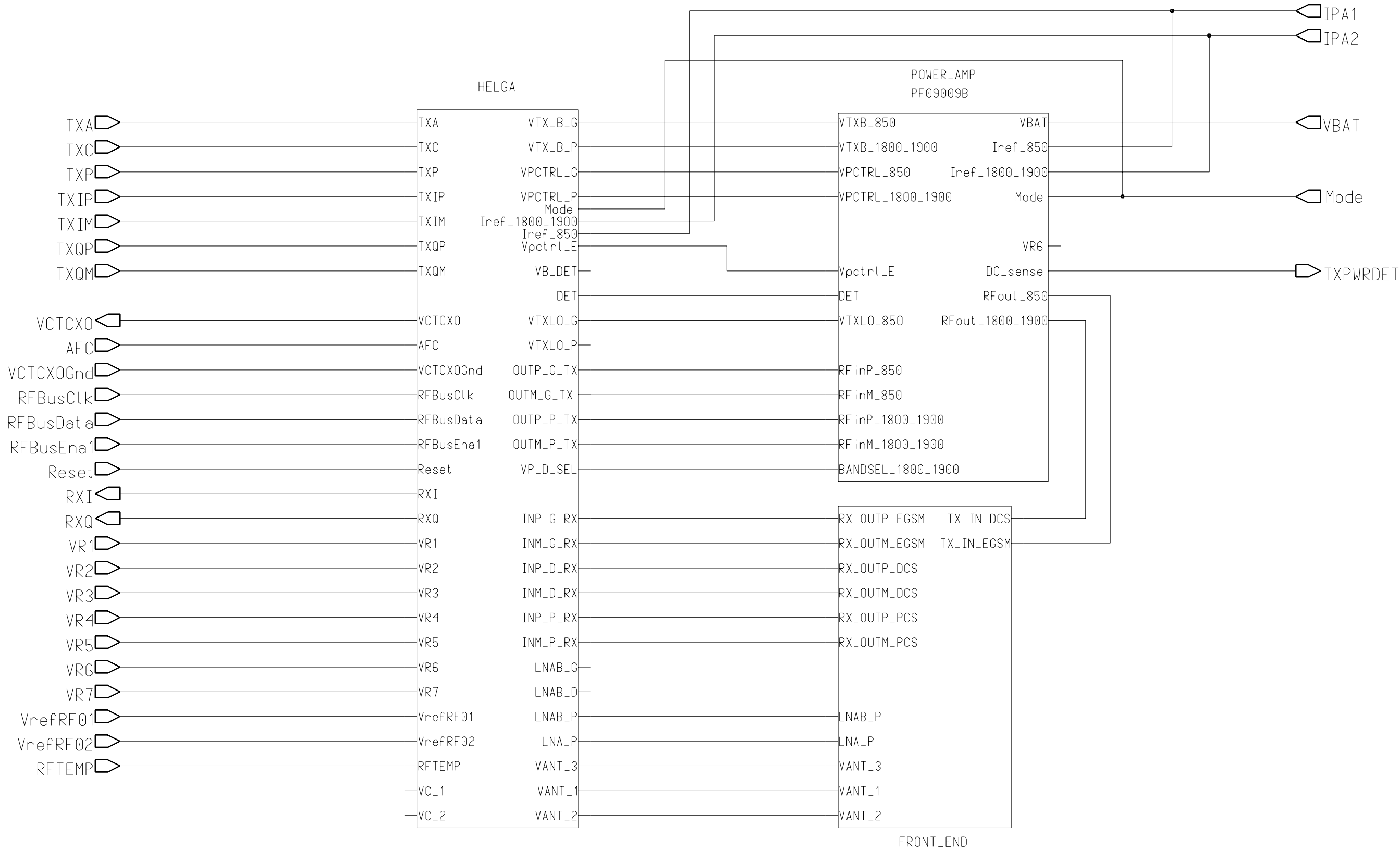


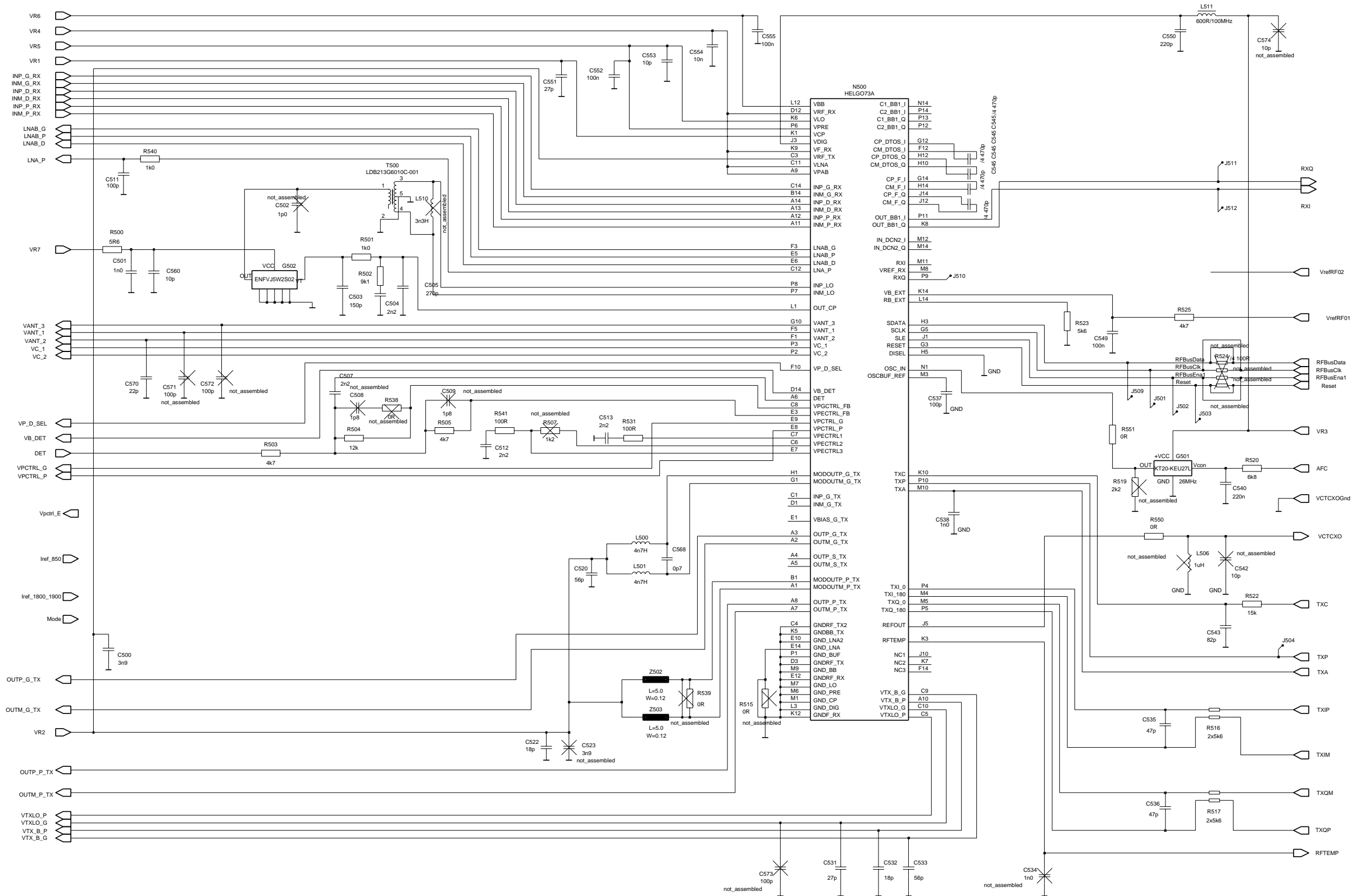
Block diagram



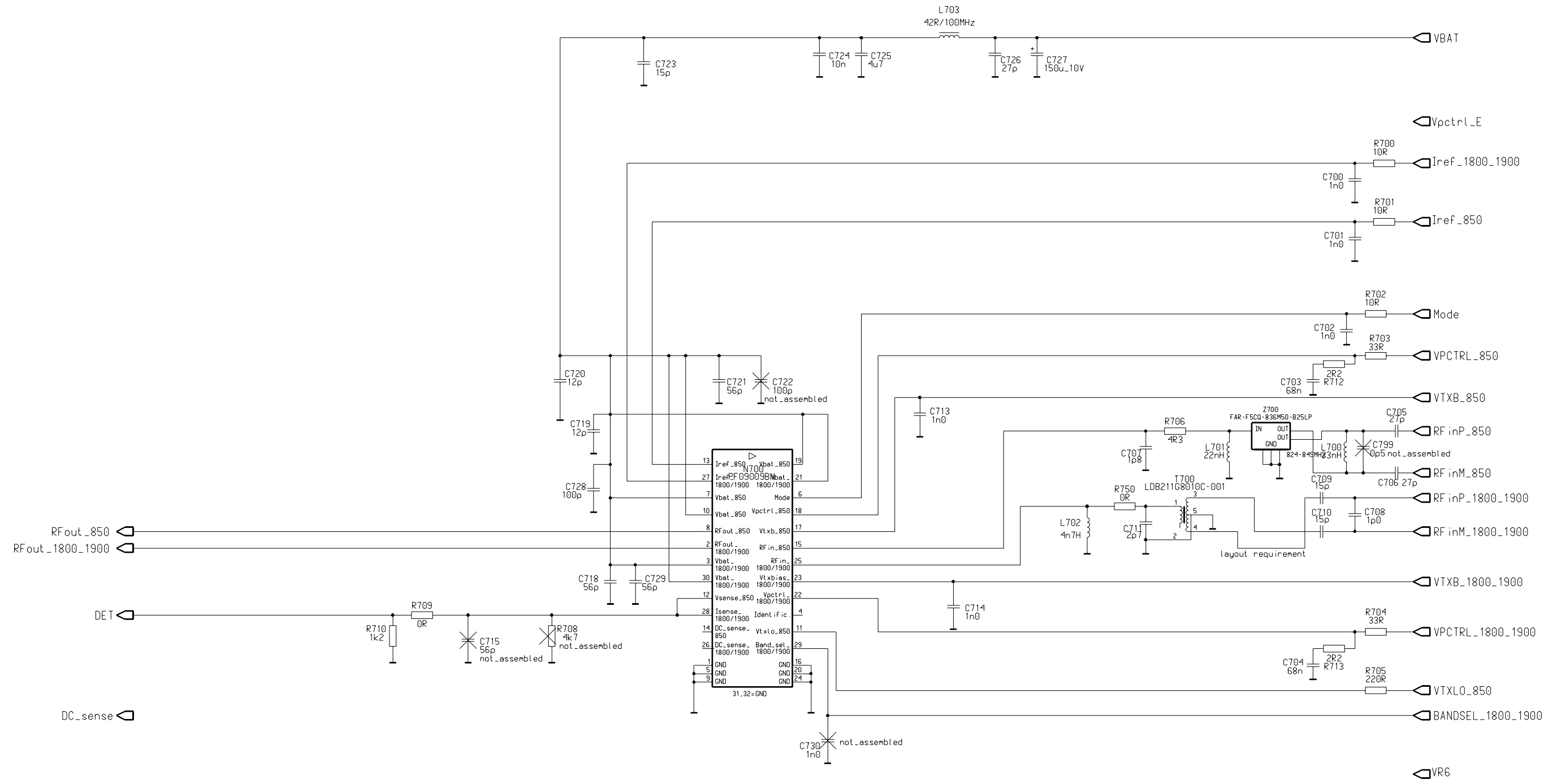
RF Block Diagram



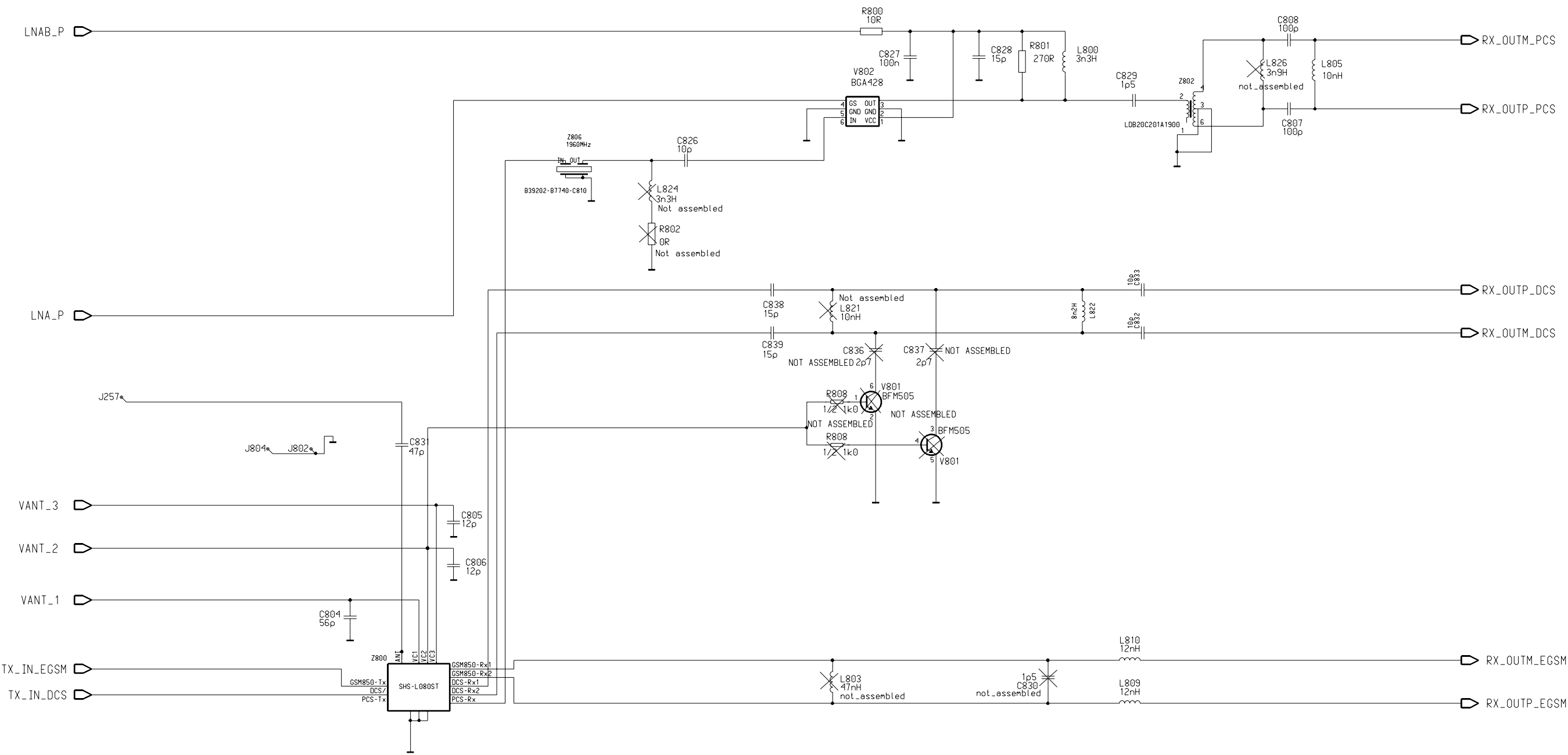
RF IC Helgo



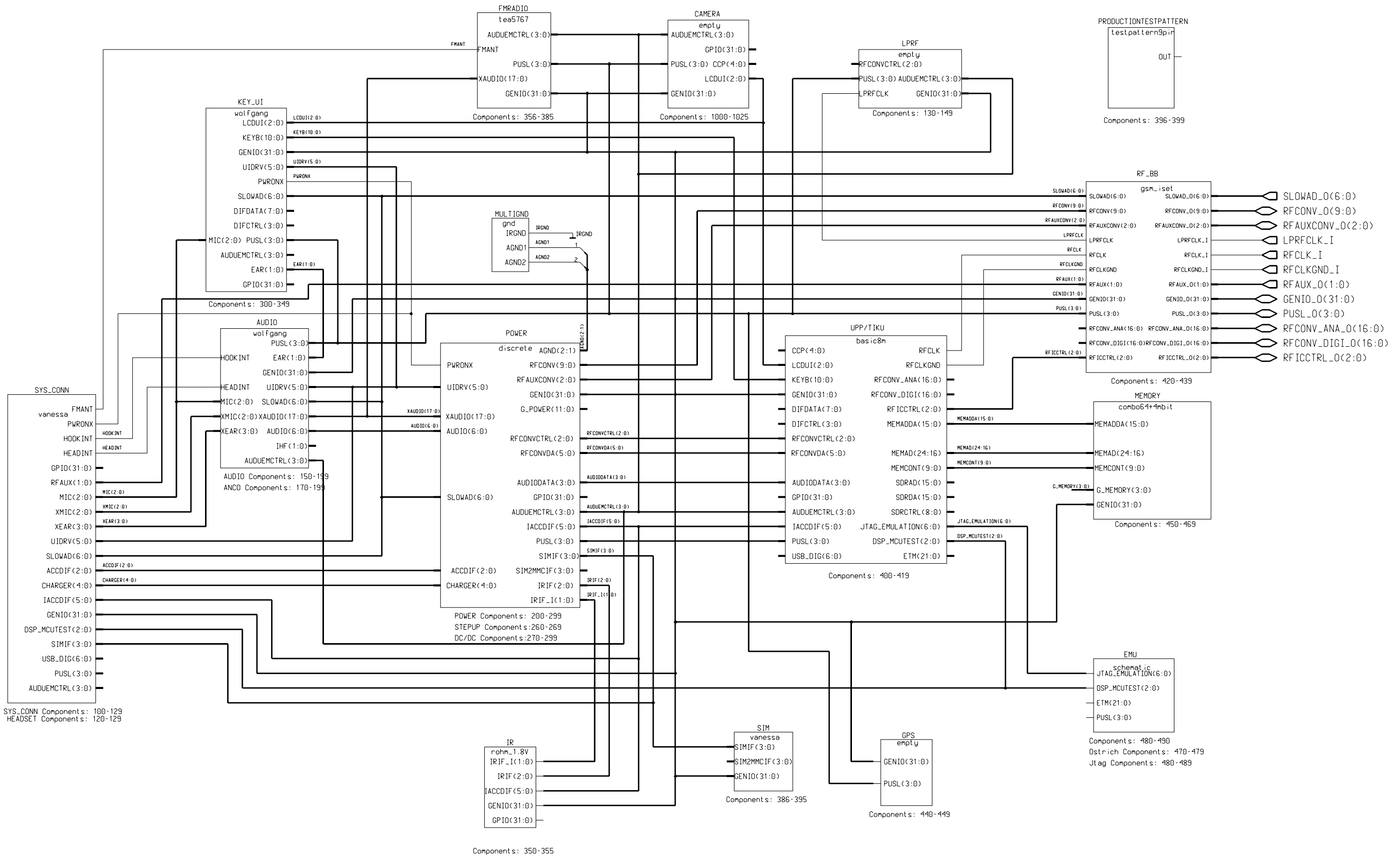
Power Amplifier Detection



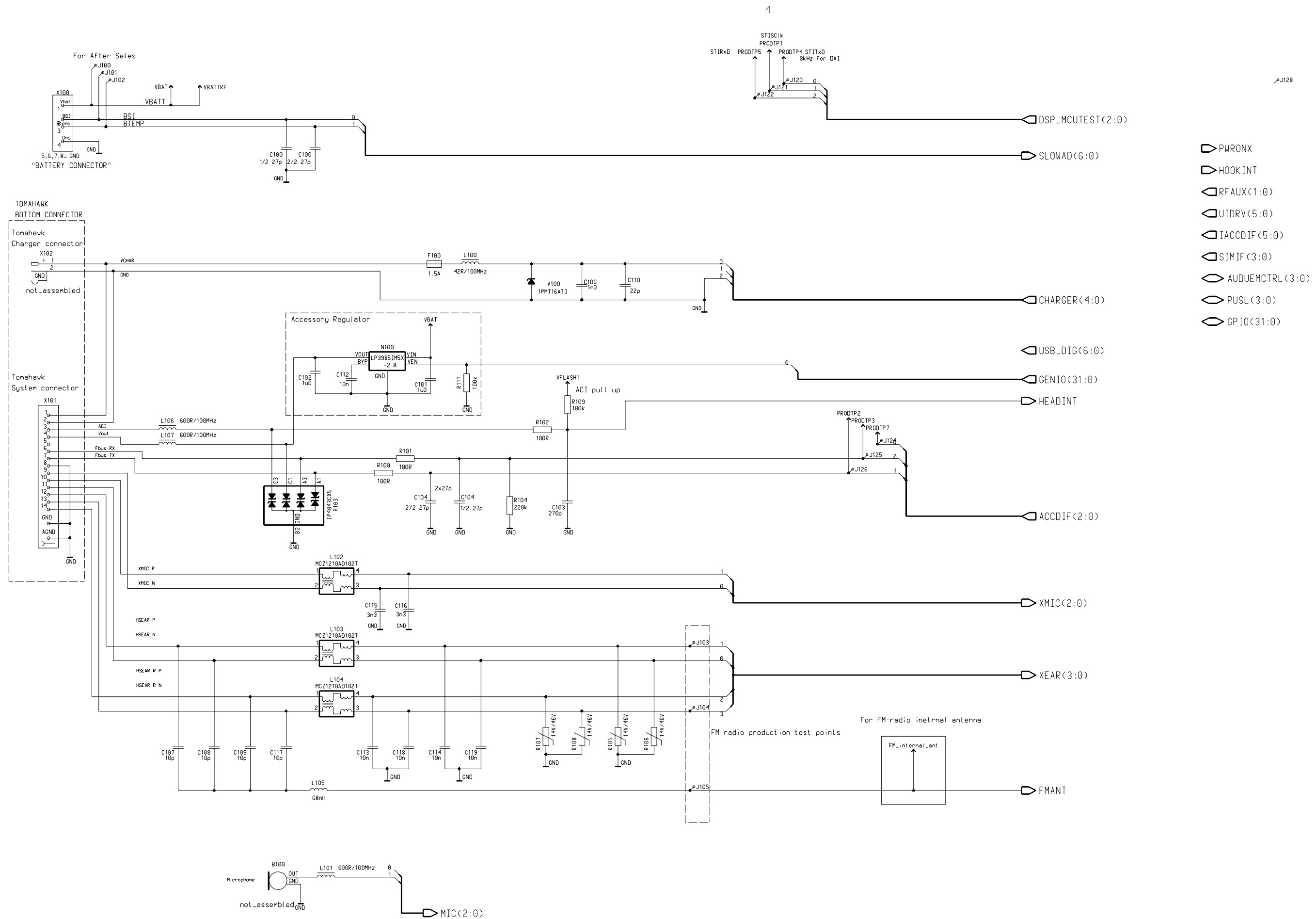
RX Front End and Antenna Switch



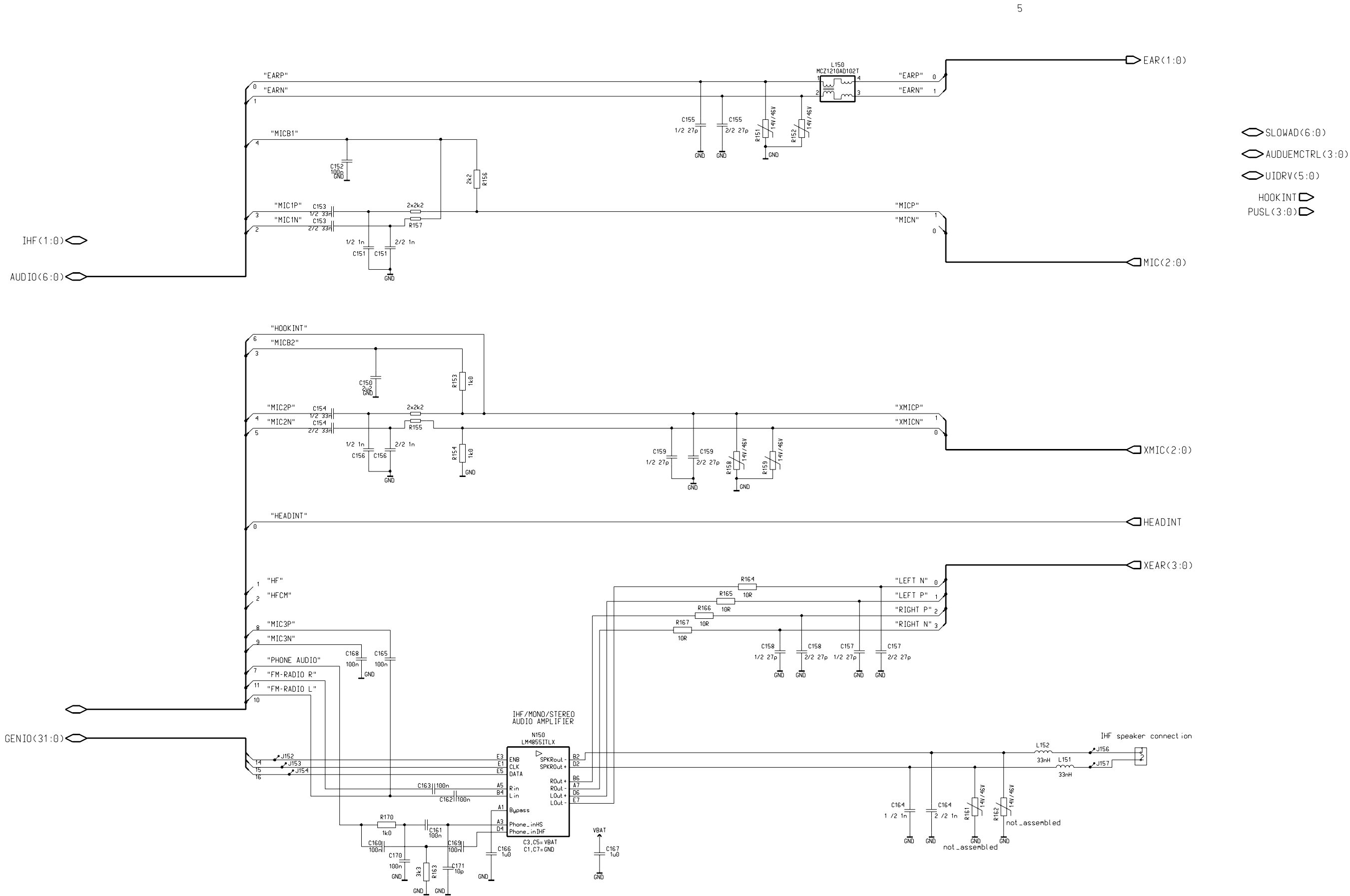
BB Block Diagram



System Connector

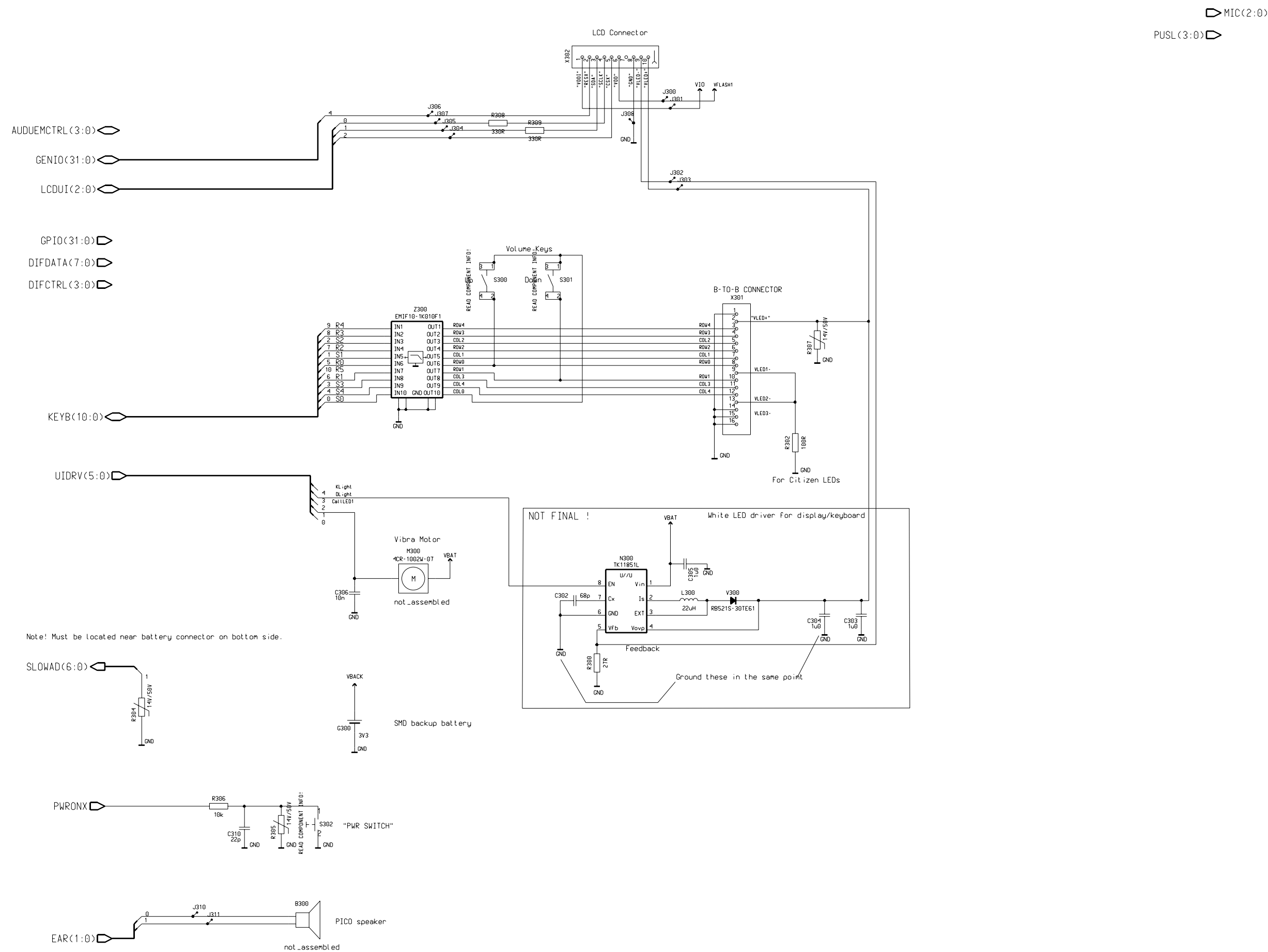


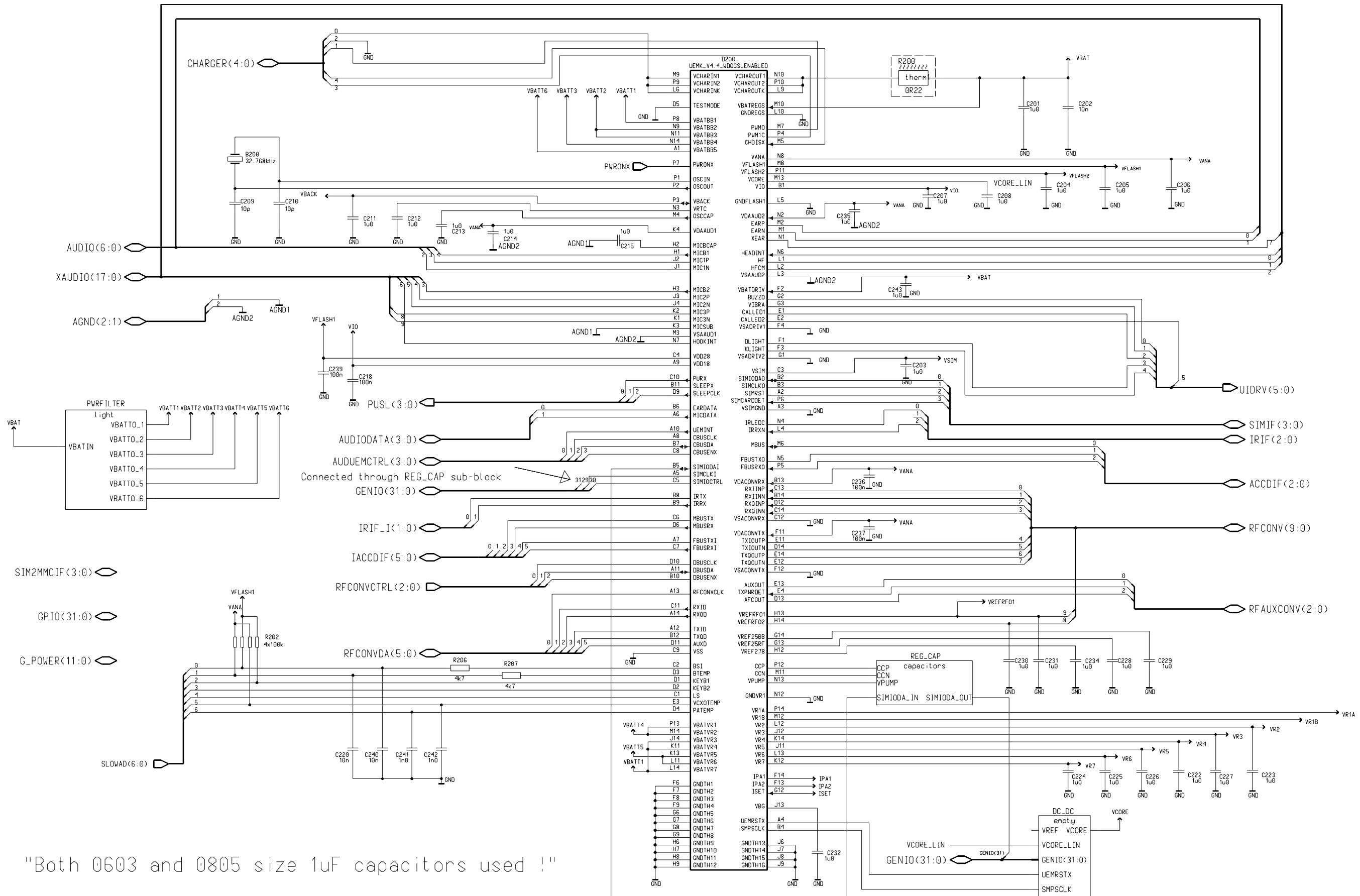
Audio



User Interface

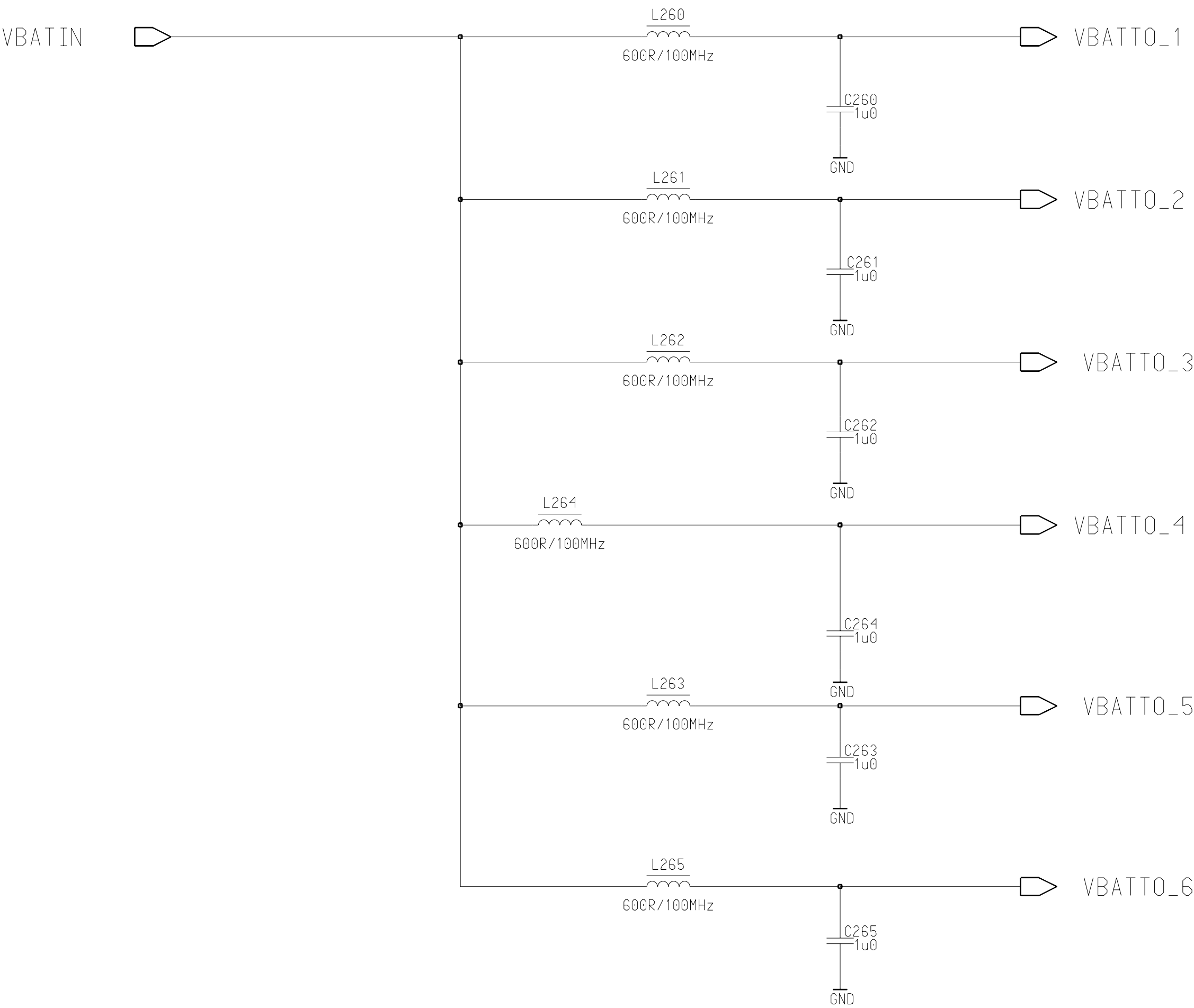
1

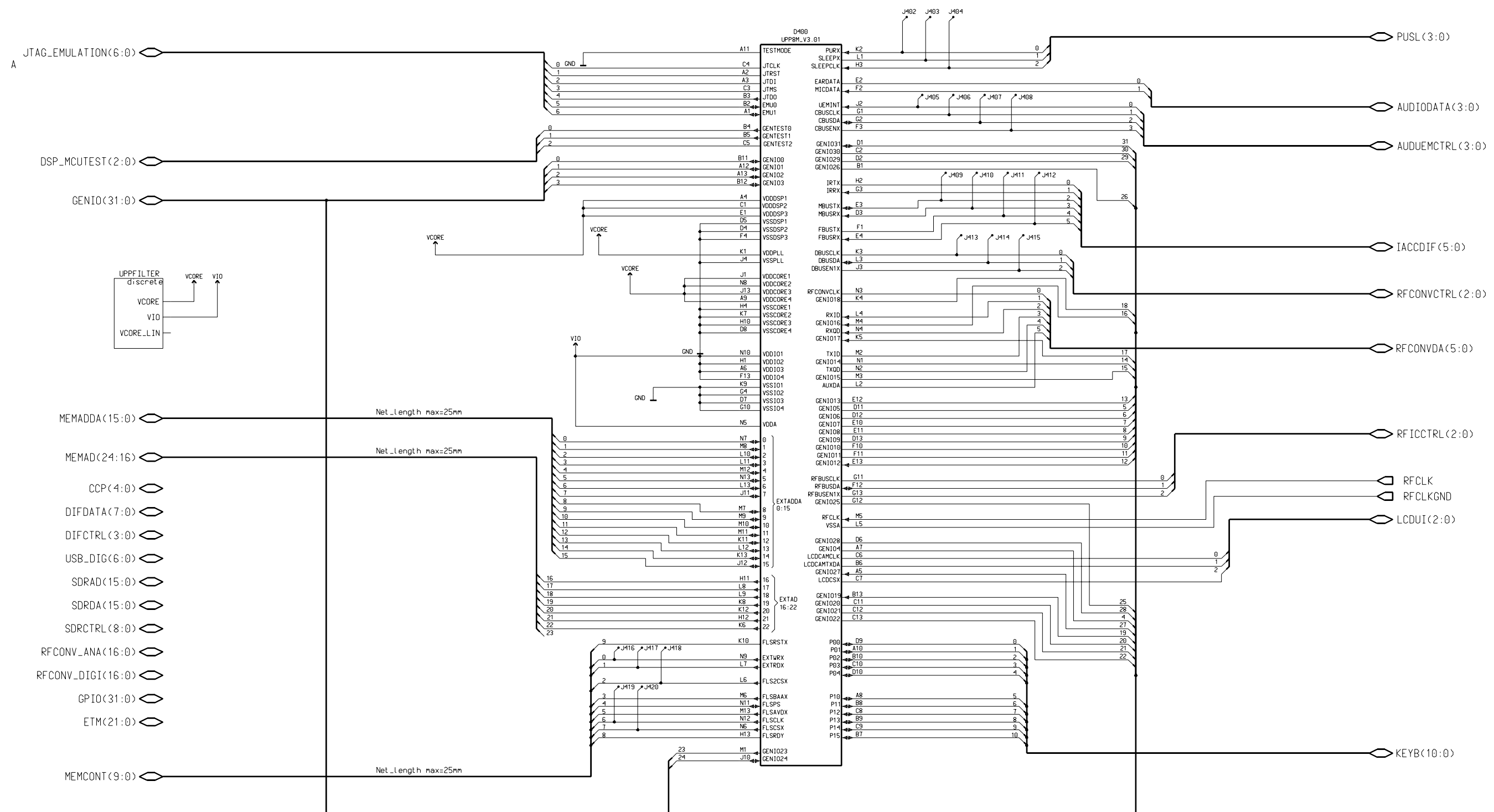




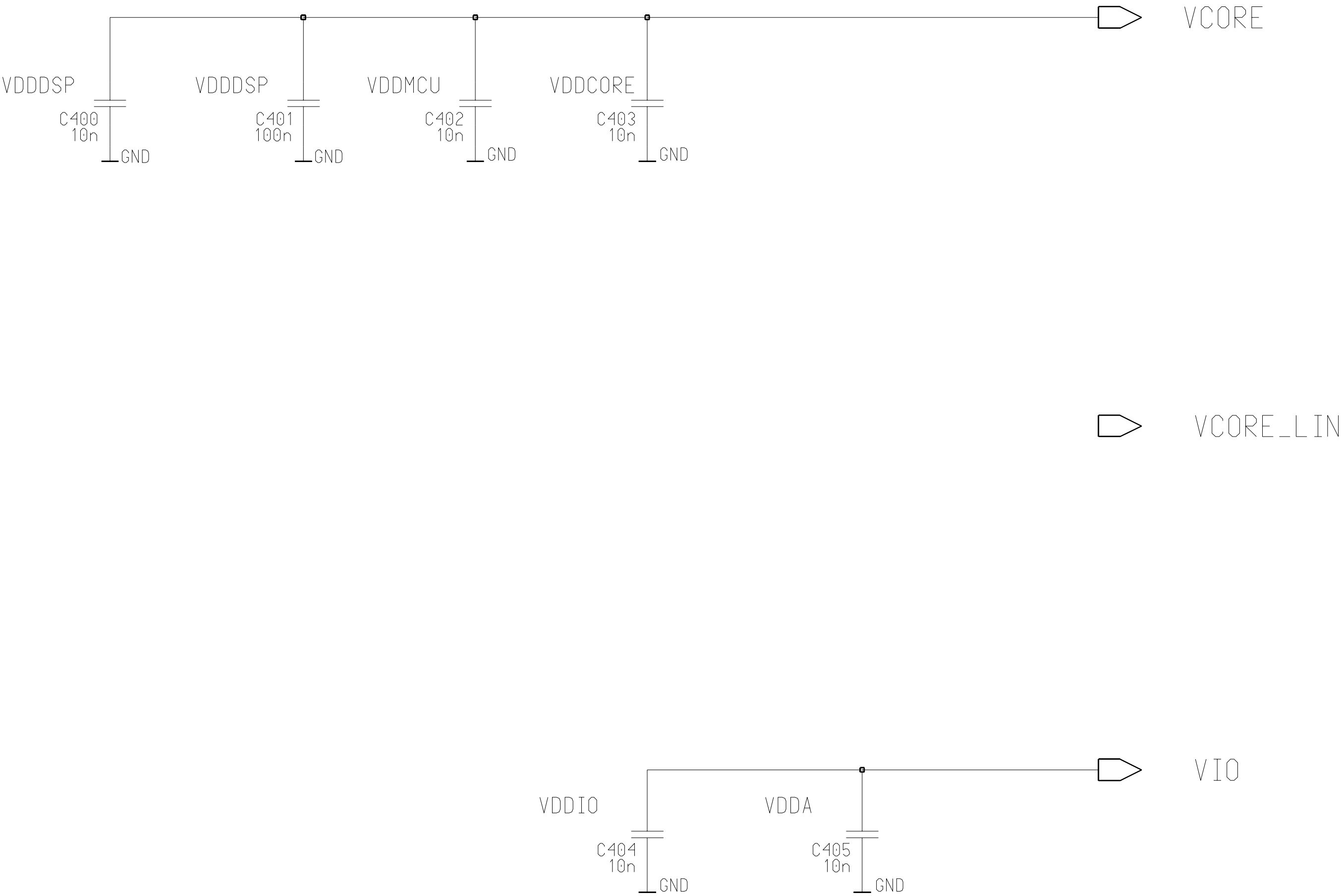
"Both 0603 and 0805 size 1uF capacitors used !"

Light Filtering



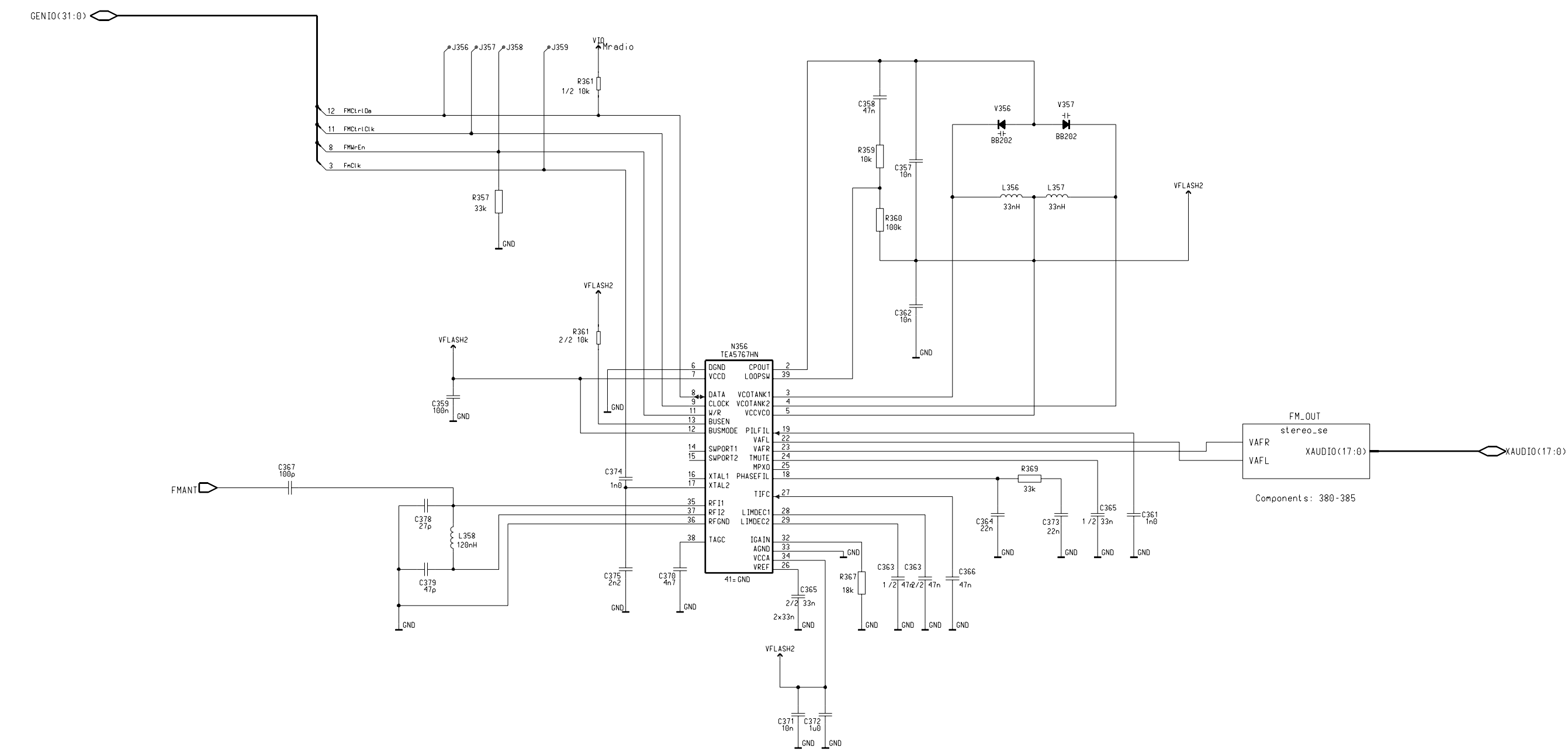


UPP Decoupling Capacitors



FM Radio IC

FMCLK = GENIO(3)



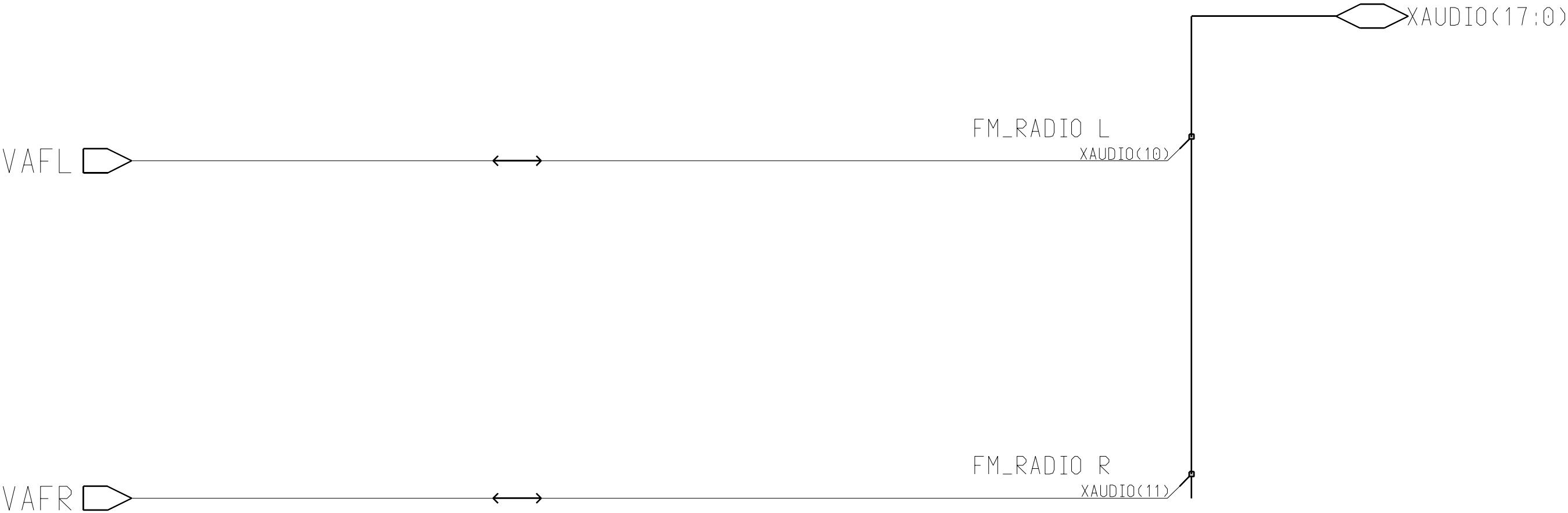
AUDUEMCTRL(3:0)

PUSL(3:0)

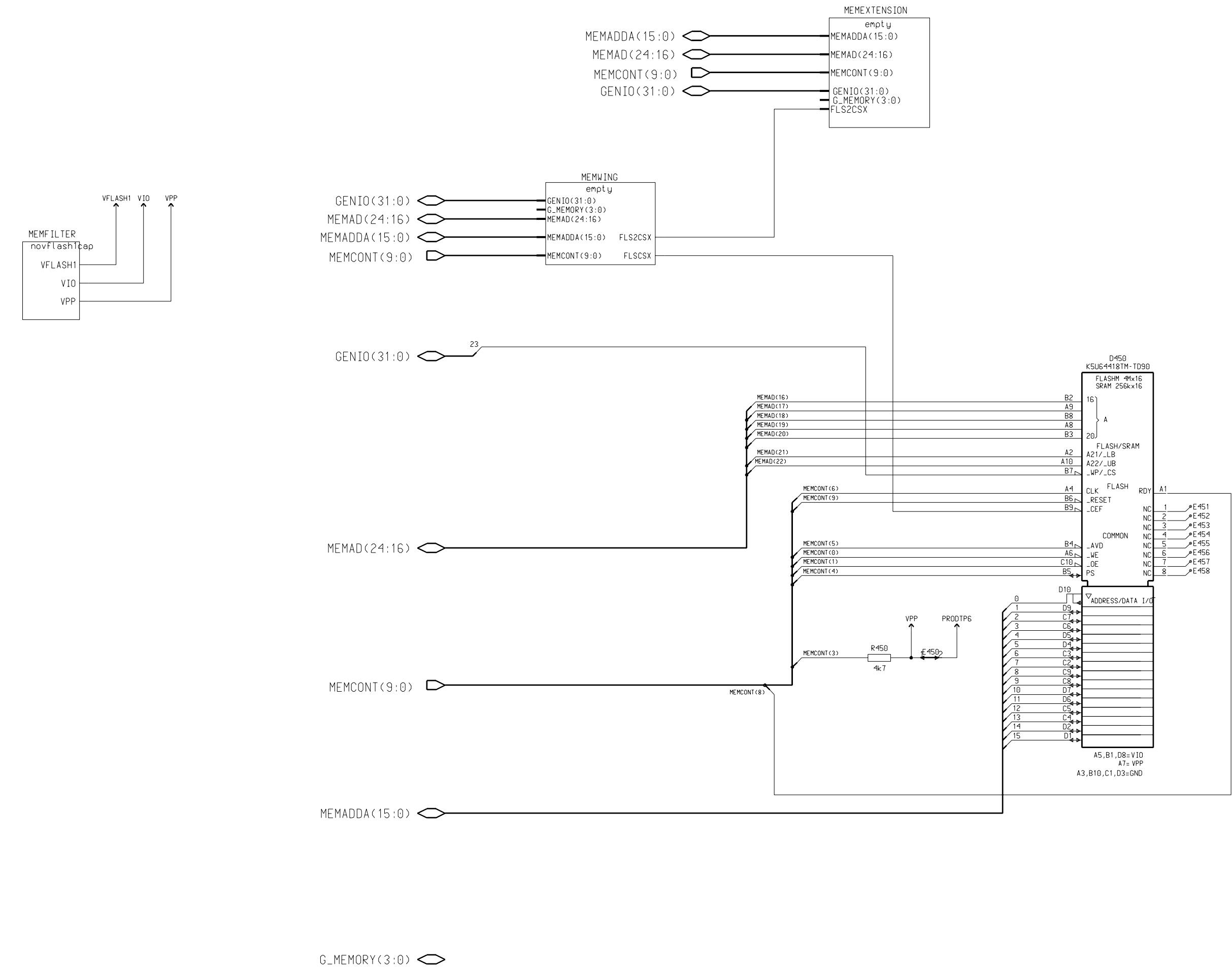
Not ice :

C374 (1n0) and C375 (2n2) are configured for 32kHz reference clock
If reference clock is 6.5MHz, use C374 (3p9) and C375 (10p)

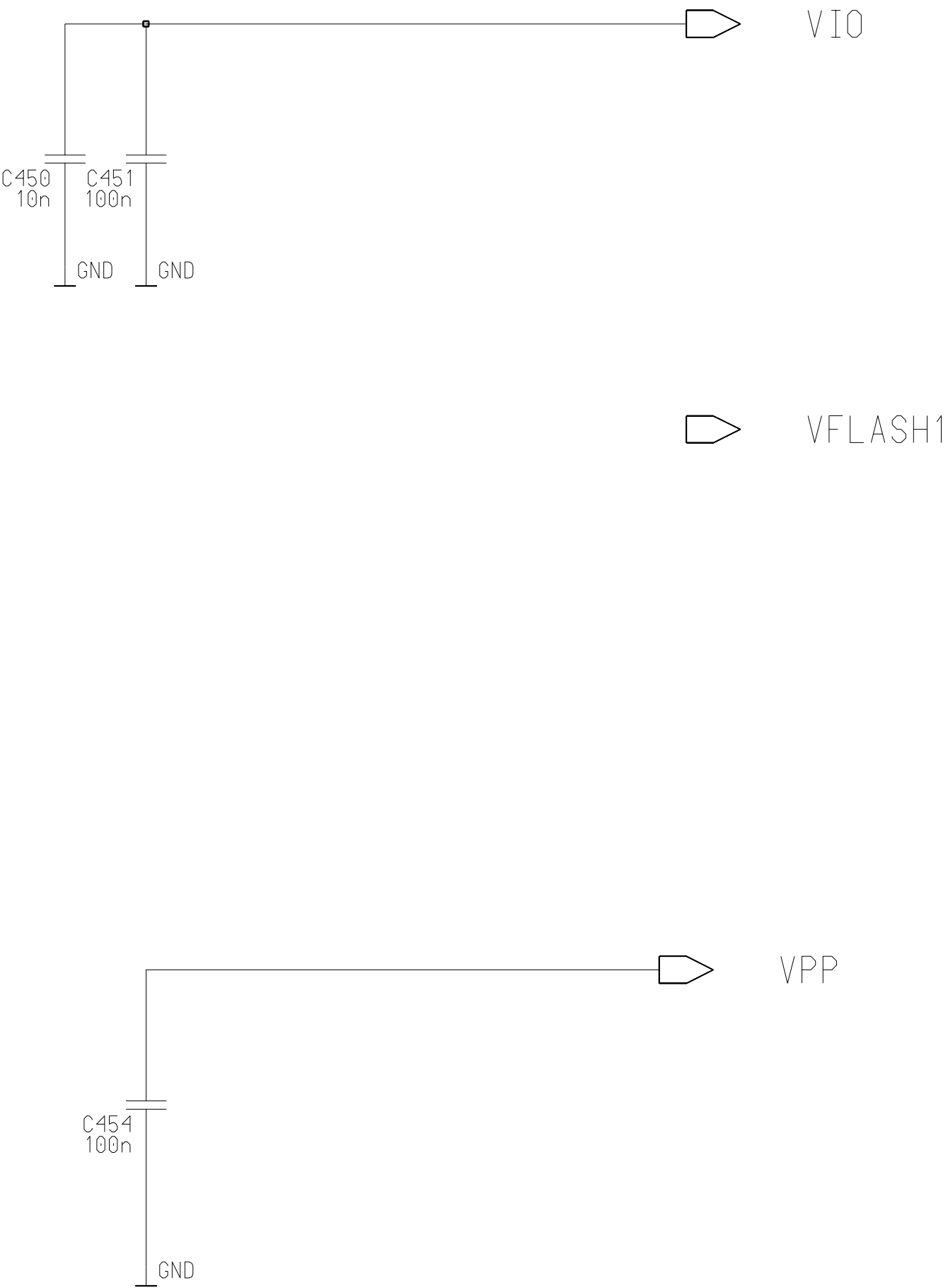
FM Radio Unit

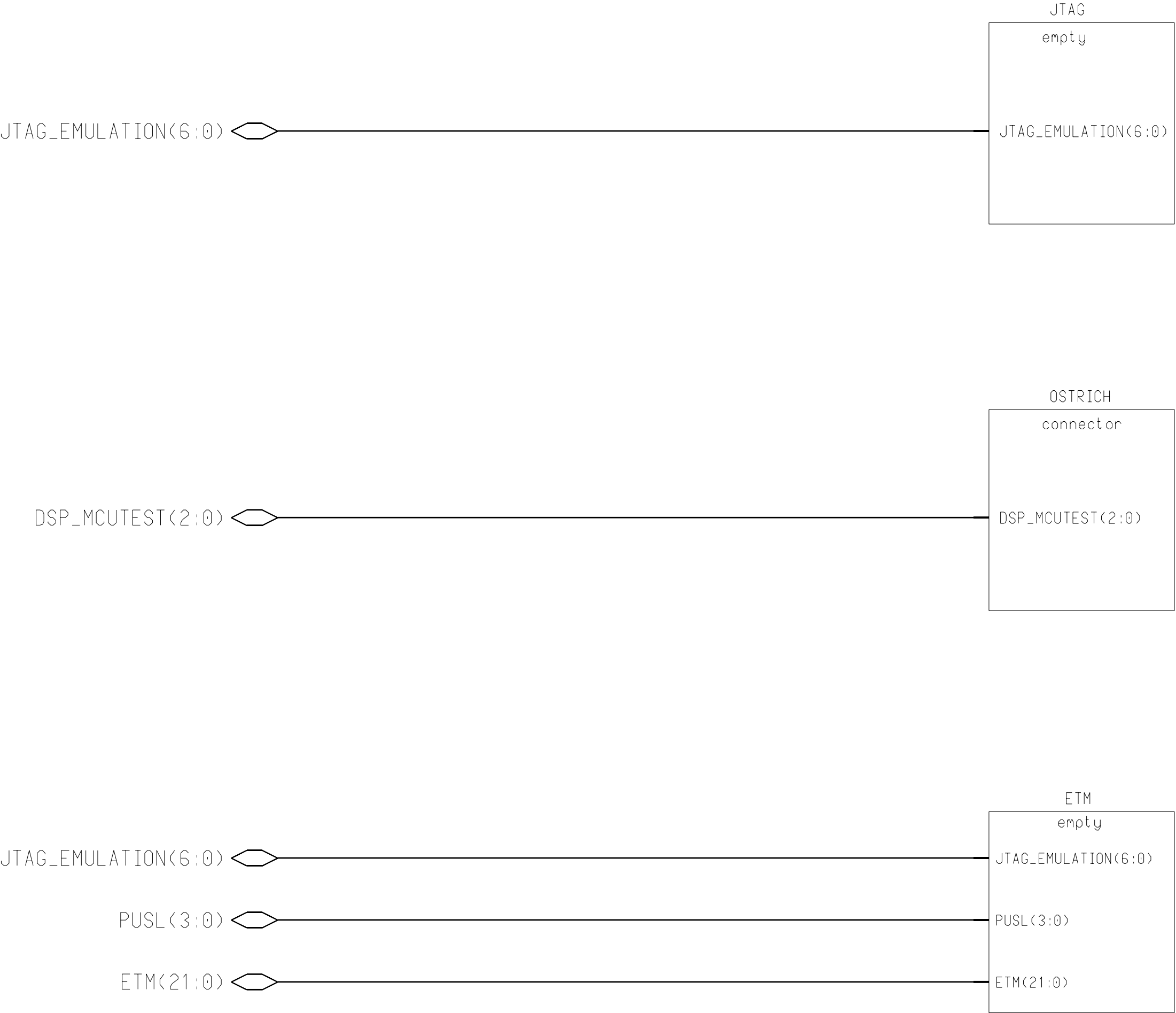


Combo Memory

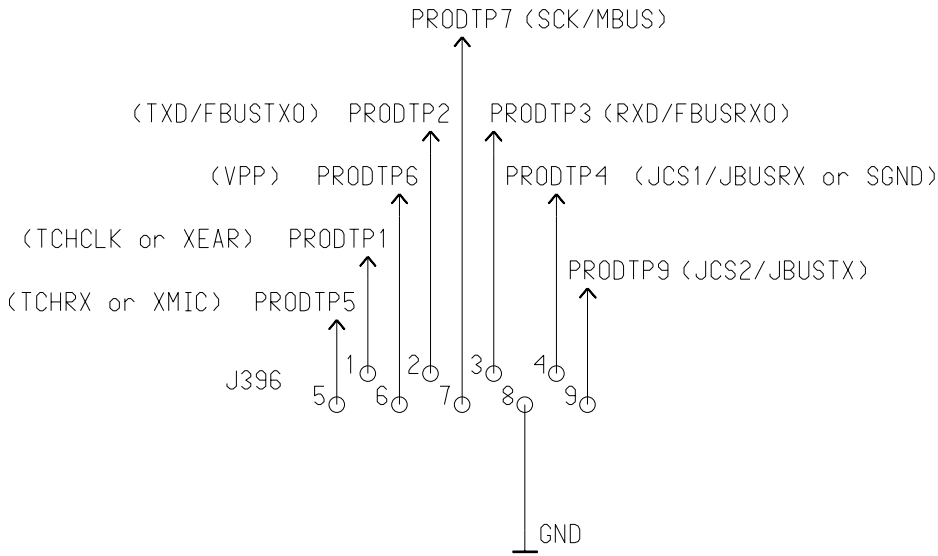


Combo Decoupling Capacitors

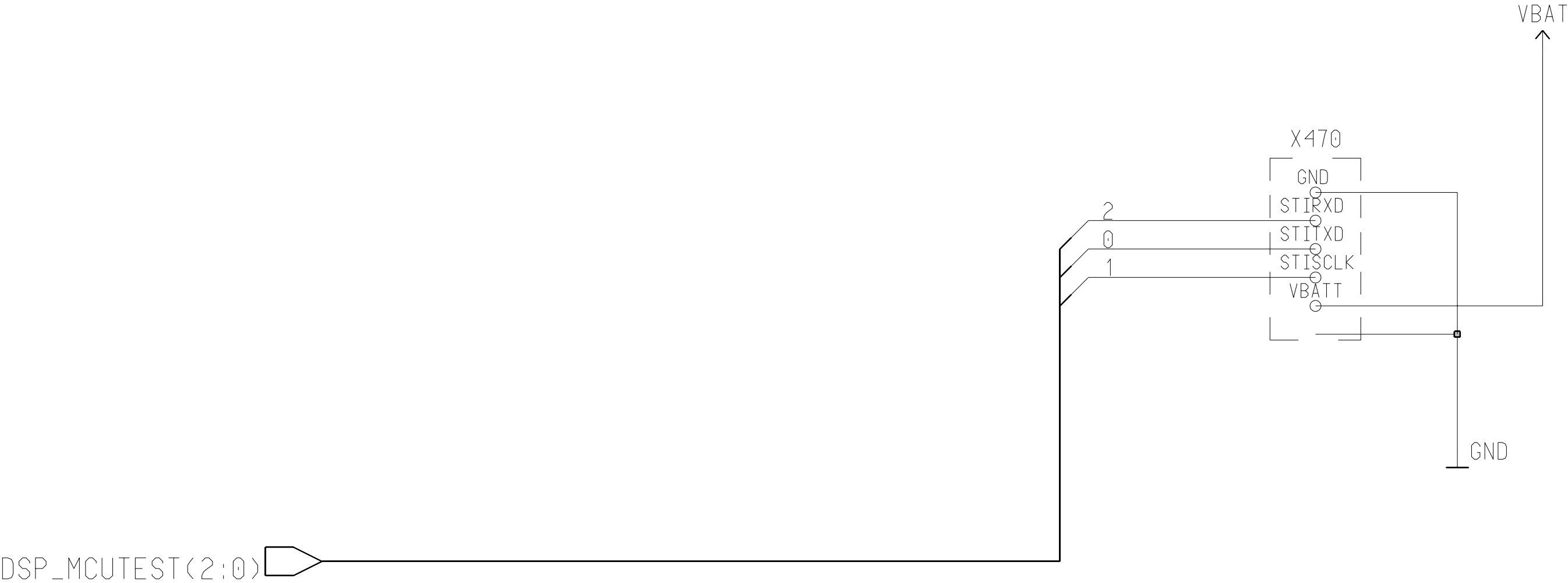




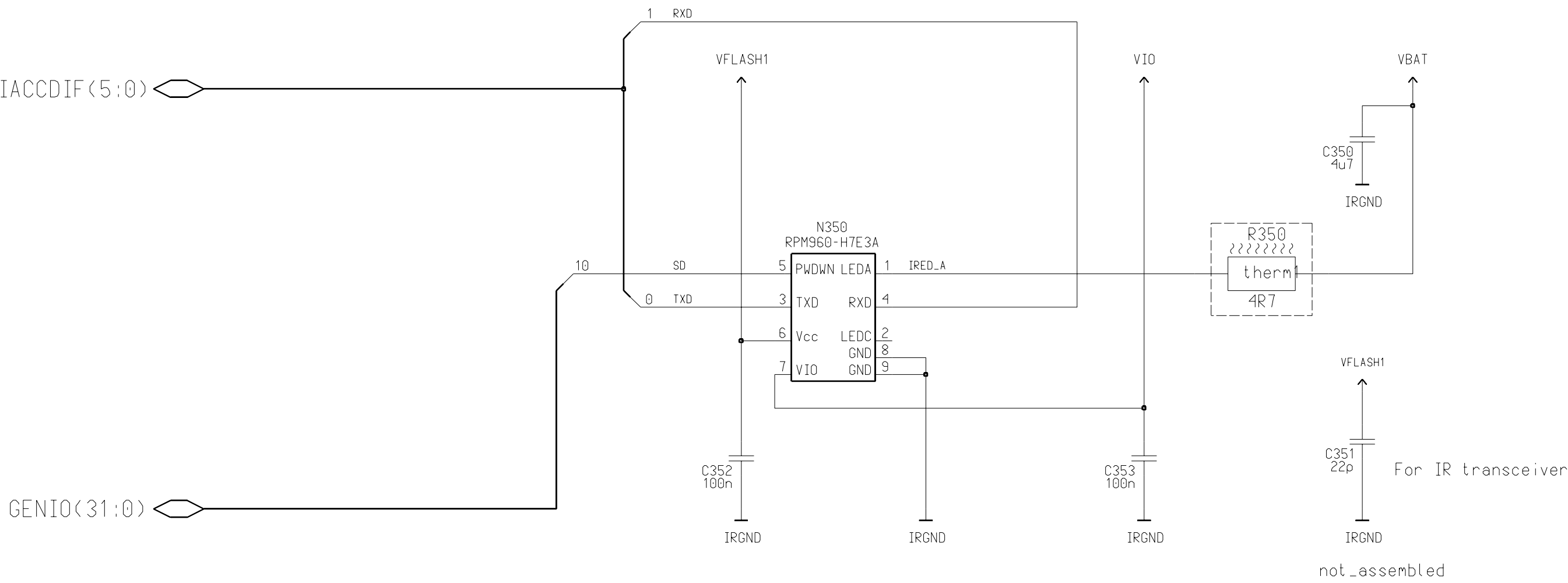
Ostrich Emulator Connector



OUT

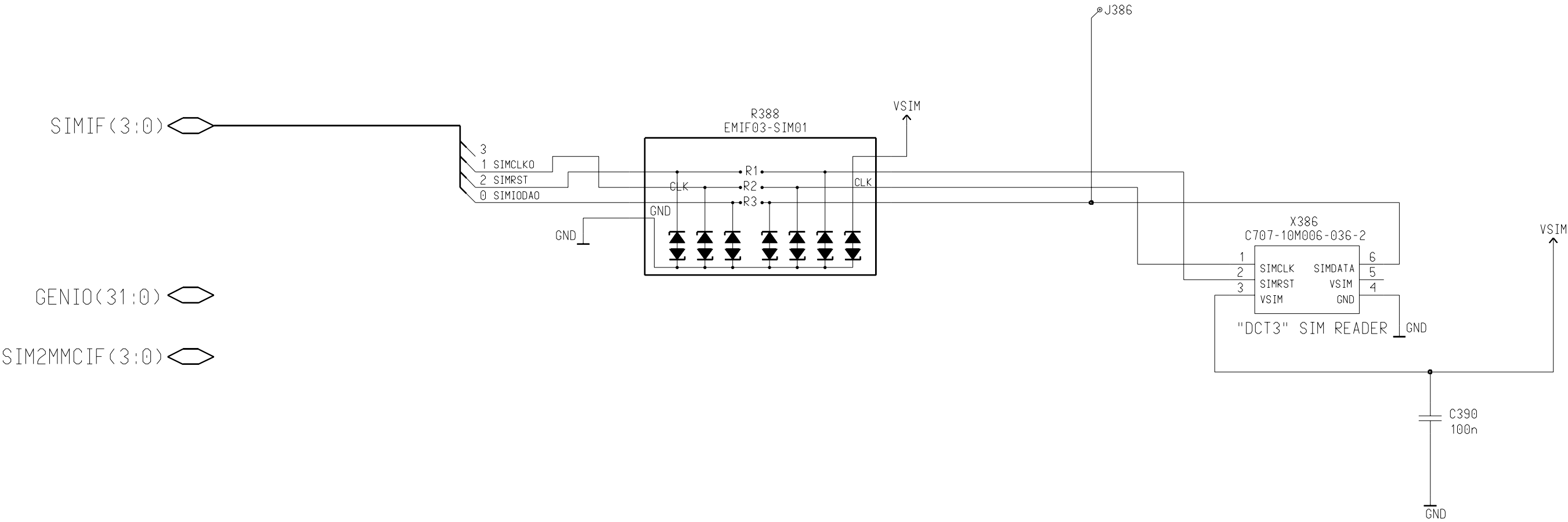


IR

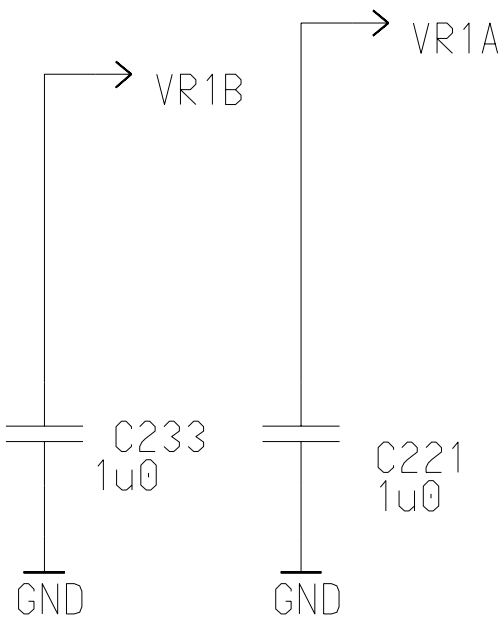
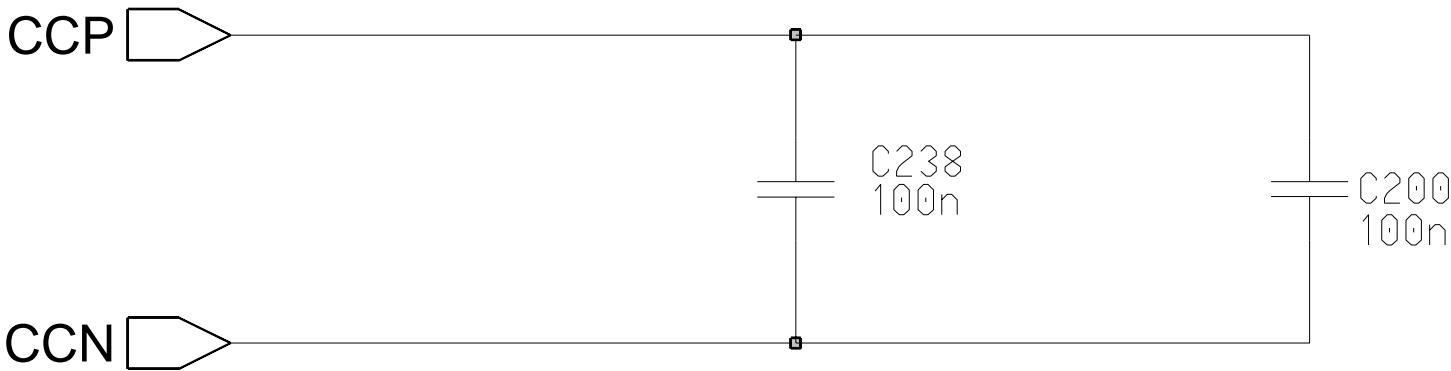
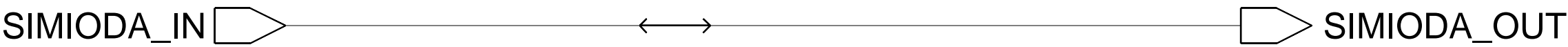


UEM IR level shifters
are ground, when 1.8V
IR is used!

Sim Reader

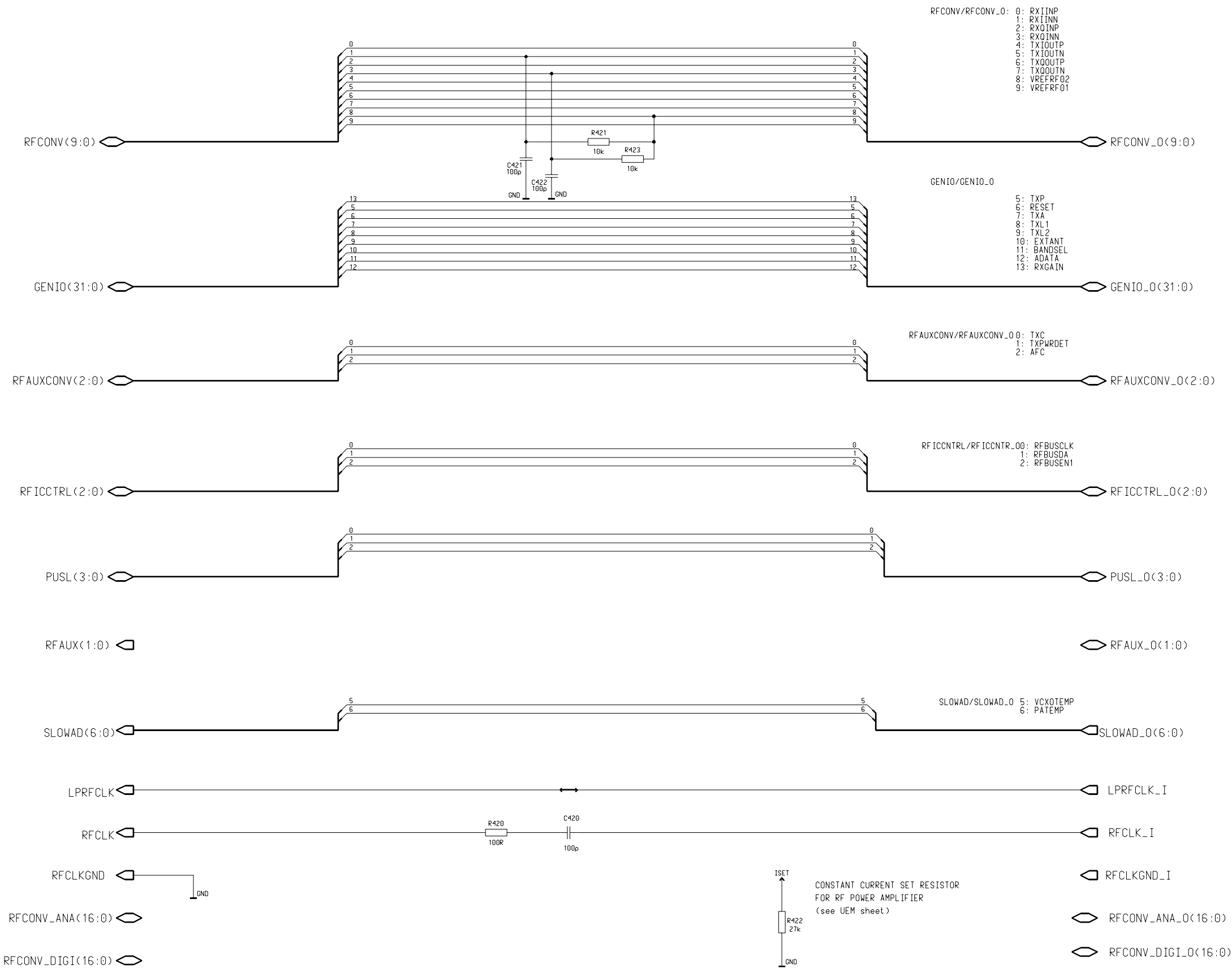


Power Discrete



RF and BB Interface

4



IPA1 AND IPA2 ARE USED IN RF, THE TOLERANCE OF R422 IS 1% (0402, 1430873)